

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/509,377	08/28/2000	Sergey Matasov		8553

**TITLE:** Endoscope with disposable cartridges for the invagination of endoscopic tube

United States Patent and Trademark Office  
Honorable Commissioner for Patents  
Art Unit 3739 Examiner Mr. Leubecker, John P.  
Washington, D.C. 20231  
United States of America

EXAMINER	
LEUBECKER, JOHN P	
ART UNIT	PAPER NUMBER
3739	

**DATE MAILED:** 02/03/2003

**REMARKS / ARGUMENTS**

Claims 1-8 have been amended.

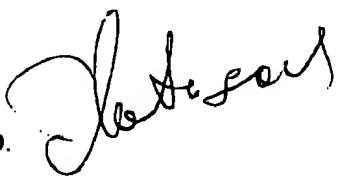
The examiner has acknowledged that claims 1-20 have now been amended to clear up all examiner's objections.

Attached hereto is a marked-up version of the changes made to the specification, claims and drawings by the current amendment. The attached page is captioned "Version with markings to show changes made".

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Faithfully Yours,

Sergey Matasov, M.D.



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the specification:**

1. Paragraph, beginning at page 3, line 12 with has been amended as follows:

A compact hollow cylinder of the invaginator can be formed of tightly compressed in longitudinal and transverse directions pleats of different forms of an eversible thin-walled tube placed at any angles with the longitudinal axis of an endoscopic tube. The cylinder has recurrent narrowings of an external diameter and widenings of its internal diameter. There are possible two embodiments of the cylinder. In one embodiment the gap 25 is keeping both at putting of cartridge on the endoscopic tube 3, and at the working pressure in the cavity 14. In other – the gap 25 is necessary only for putting of cartridge.

2. Statement, beginning at page 5, line 1 has been amended as follows:

Everted end 12 of invaginator 23 is connected to shell 22 by ring 16. Invaginator 23 has narrowings and widenings 24, as well as gap 25 with distal preservative 26, at that the gap 25 is keeping also at working pressure in the cavity 14.

3. Paragraphs at page 8, lines 24-25 have been amended as follows:

70 - cutters of biopsy forceps 63;

71 - distal intensifier (drive) of traction line of the cutters 70.

Application/Control Number: 09/509,377  
Art Unit: 3739

Page 3

7. An endoscope, comprising a disposable cartridge for the invagination of endoscopic tube, which has:
  - an invaginator of a thin-walled tube, formed in the shape of small layers and/or pleats in a hollow cylinder having a gap with the distal part of endoscopic tube,
  - a distal seal of endoscopic tube,
  - a shell of invaginator for insertion in rectum,
  - a preservative of the distal part of endoscopic tube.
8. The endoscope according to claim 7, wherein said Invaginator keeps said gap under the working pressure in the cavity of invaginator.
9. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a proximal seal of the endoscopic tube.
10. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a spring of invaginator.
11. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a tip of the endoscopic tube.
12. The endoscope according to claim 11, wherein said tip comprises a protective glass.
13. The endoscope according to claim 12, wherein said tip comprises a channel in the cavity of intestines.
14. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an anal dilator.
15. The endoscope according to claim 14, wherein said anal dilator comprises a channel in the cavity of intestines.
16. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of cylinder/piston units.
17. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising an endoscopic tube with a distal drives of traction lines, bending its distal end, made in the shape of sylphon.
18. The endoscope according to any of claims 1, 2, 3, 7, 8, further comprising a biopsy forceps in the shape of a flexible hermetic tube, on the distal end of said tube a piston of biopsy channel is placed.
19. The endoscope according to claim 18, further comprising a distal drive of cutters.
20. An endoscope comprising a mechanism for insertion of endoscopic tube in the shape of cylinder/piston unit.

In the drawings:

The drawing 4/4 has been amended as follows on page 4

Faithfully Yours,

Sergey Matasov, M.D.

